## CLAIMS

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1.	Α	device	adapted	for	displaying	time	in	the	form	of	a
selectabl	е	display	pattern,	com	mprising:			,	. 7 4 +		of

a	ì	storage	device	adapted	for	storing	a	plurality	of
select	al	ole displ	ay patte	rns;					_

an interface adapted for accepting at least one input from an operator and in response to the input said interface selects one of said selectable display patterns;

a plurality of display elements comprising a plurality of hour display elements and a plurality of minute display elements located proximate to a display area; and

a display elements controller in communication with a time mechanism, said storage device, and said interface;

wherein each of said hour display elements has at least an exhibiting state and a non-exhibiting state and is for indication of 1 elapsed hour;

wherein an amount of display elements of said hour display elements being in said exhibiting state of said hour display elements indicates an elapsed number of hours in a day;

LITMAN LAW 18 OFFICES, LTD. P.O. BOX 15035 ARLINGTON, VA 22215 (703) 486-1000 wherein each of said minute display elements has at least an exhibiting state and a non-exhibiting state and is for indication of at least 1 elapsed minute, and wherein an amount of display elements of said minute display elements being in said exhibiting state of said minute display elements indicates an elapsed number of minutes in an hour;

wherein said controller is in operable communication with said hour display elements and said minute display elements wherein said controller is adapted for switching each of said hour display elements and said minute display elements at least between said exhibiting state and said non-exhibiting state of said hour display elements and said minute display elements, respectively;

wherein said controller is adapted for receiving time signals from the time mechanism and in response to the time signals said controller outputs display control signals to said hour display elements and said minute display elements whereby an hours group pattern and a minutes group pattern, respectively, of said one of said selectable display patterns are exhibited proximate to the display area, and

wherein each of said hours group pattern and said minutes group pattern is of discrete and discernable contrast relative

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to the display area and is visually distinguishable from one another.

- The device according to claim 1, wherein each of said hours group pattern and said minutes group pattern comprises a plurality of subgroup patterns wherein each of said subgroup patterns is able to be initiated by any display element within wherein a chronological sequence of that subgroup pattern, exhibition proximate to the display area among said subgroup patterns of said hours group pattern is able to be initiated by any display element within any one of said subgroup patterns of said hours group pattern, and wherein a chronological sequence of exhibition proximate to the display area among said subgroup patterns of said minutes group pattern is able to be initiated by any display element within any one of said subgroup patterns of 12 said minutes group pattern. 13
  - The device according to claim 2, wherein each subgroup 3. pattern of each of said hours group pattern and said minutes group pattern is exhibited by a group of display elements consisting of 2 display elements, 3 display elements, 4 display elements, 5 display elements and 6 display elements.

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6. The device according to claim 1, wherein:

said hour display elements is selected from a group of hour display elements consisting of 12 primary hour display elements and 24 primary hour display elements wherein each primary hour display element is for indication of 1 elapsed hour, and

said minute display elements is selected from a group of minute display elements consisting of 60 primary minute display element is for indication of 1 elapsed minute, 12 primary minute display element is for indication of 5 elapsed minutes, and 12 primary minute display elements and 4 secondary minute display elements wherein each primary minute display element is for indication of 5 elapsed minutes and each secondary minute display element is for indication of 1 elapsed minute of a 4-minute period between each 5-minute interval.

7. The device according to claim 1, wherein said storage device, said interface, said plurality of display elements and said controller are manufactured as a single operating device.

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8. The device according to claim 1, wherein said plurality of display elements further comprises a plurality of second display elements located proximate to the display area, wherein each of said second display elements has at least an exhibiting state and a non-exhibiting state and is for indication of at least 1 elapsed second, wherein an amount of display elements of said second display elements being in said exhibiting state of said second display elements indicates an elapsed number of seconds in a minute, whereby said controller is in operable communication with said second display elements whereby a seconds group pattern of said one of said selectable display patterns is exhibited proximate to the display area as a result of the output display control signals from said controller in response to the time signals, and wherein said seconds group pattern is of discrete and discernable contrast relative to the display area and is visually distinguishable from said hours group pattern and said minutes group pattern.

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## 9. The device according to claim 8, wherein:

said hour display elements is selected from a group of hour display elements consisting of 12 primary hour display elements and 24 primary hour display elements wherein each primary hour display element is for indication of 1 elapsed hour,

said minute display elements is selected from a group of minute display elements consisting of 60 primary minute display element is for indication of 1 elapsed minute, 12 primary minute display element is for indication of 5 elapsed minutes, and 12 primary minute display elements and 4 secondary minute display elements wherein each primary elements wherein each primary minute display elements and 4 secondary minute display elements wherein each primary minute display element is for indication of 5 elapsed minutes and each secondary minute display element is for indication of 1 elapsed minute of a 4-minute period between each 5-minute interval, and

said second display elements is selected from a group of second display elements consisting of 60 primary second display elements wherein each primary second display element is for indication of 1 elapsed second, 12 primary second display elements wherein each primary second display element is for indication of 5 elapsed seconds, and 12 primary second display

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elements and 4 secondary second display elements wherein each primary second display element is for indication of 5 elapsed seconds and each secondary second display element is for indication of 1 elapsed second of a 4-second period between each 5-second interval.

according to claim 1, wherein 10. The device said plurality of display elements further comprises a plurality of day display elements located proximate to the display area, wherein each of said day display elements has at least an non-exhibiting state and for exhibiting state and a indication of 1 elapsed day in a week, wherein an amount of display elements of said day display elements being in said exhibiting state of said day display elements indicates an elapsed number of days in a week, whereby said controller is in operable communication with said day display elements whereby a days group pattern of said one of said selectable display patterns is exhibited proximate to the display area as a result of the output display control signals from said controller in response to the time signals, and wherein said days group pattern is of discrete and discernable contrast relative to the display area and is visually distinguishable from said hours group pattern and said minutes group pattern.

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device according to claim 1, 11. The wherein said plurality of display elements further comprises a plurality of date display elements located proximate to the display area, wherein each of said date display elements has at least an non-exhibiting exhibiting state state and for and а indication of at least 1 elapsed day in a month, wherein an amount of display elements of said date display elements being in said exhibiting state of said date display elements indicates an elapsed number of days in a month, whereby said controller is in operable communication with said date display elements whereby a date group pattern of said one of said selectable display patterns is exhibited proximate to the display area as a the output display control signals from result οf said controller in response to the time signals, and wherein said date group pattern is of discrete and discernable contrast relative to the display area and is visually distinguishable from said hours group pattern and said minutes group pattern.

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12. The device according to claim 11, wherein said plurality of display elements further comprises a plurality of month display elements located proximate to the display area, wherein each of said month display elements has at least an exhibiting state and a non-exhibiting state and is indication of at least 1 elapsed month, wherein an amount of display elements of said month display elements being in said exhibiting state of said month display elements indicates an elapsed number of months in a year, whereby said controller is in operable communication with said month display elements whereby a month group pattern of said one of said selectable display patterns is exhibited proximate to the display area as a result of the output display control signals from said controller in response to the time signals, and wherein said month group pattern is of discrete and discernable contrast relative to the display area and is visually distinguishable from said hours group pattern, said minutes group pattern, and said date group pattern.

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13. The device according to claim 12, wherein said interface further comprises a pattern toggle member being able to be placed in either of a first position and a second position, whereby a first display comprising at least one of said hours group pattern, said minutes group pattern, said date group pattern and said months group pattern is displayed when said pattern toggle member is in said first position, whereby a second display comprising at least one of said hours group pattern, said minutes group pattern, said date group pattern and said months group pattern is displayed when said pattern toggle member is in said second position, and wherein said first display and said second display are visually distinguishable from one another.

15. The device according to claim 12, wherein said interface further comprises a time display toggle member switching said display elements between a first display state consisting of said hours group and said minutes group for displaying time only, a second display state consisting of said month group and said date group for displaying a date only, and a third display state comprising said month group, said date group, said hours group and said minutes group for displaying both the time and date.

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16. The device according to claim 1, further comprising a projection machine connected to said storage device and said interface for projecting an image of said display elements on a display area.

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LITMAN LAW 21 OFFICES, LTD. P.O. BOX 15035 ARLINGTON, VA 22215 (703) 486-1000 17. A device adapted for displaying time in the form of a selectable display pattern, comprising:

a storage device adapted for storing a plurality of selectable display patterns;

an interface adapted for accepting at least one input from an operator and in response to the input said interface selects one of said selectable display patterns;

a housing comprising a display area, wherein said display area is adapted for displaying said one of said selectable display patterns;

a plurality of display elements comprising a plurality of hour display elements and a plurality of minute display elements located proximate to said display area;

a display elements controller in communication with a time mechanism, said storage device, and said interface;

wherein each of said hour display elements has at least an exhibiting state and a non-exhibiting state and is for indication of 1 elapsed hour, and wherein an amount of display elements of said hour display elements being in said exhibiting state of said hour display elements indicates an elapsed number of hours in a day;

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wherein each of said minute display elements has at least an exhibiting state and a non-exhibiting state and is for indication of at least 1 elapsed minute, and wherein an amount of display elements of said minute display elements being in said exhibiting state of said minute display elements indicates an elapsed number of minutes in an hour;

wherein said controller is in operable communication with said hour display elements and said minute display elements wherein said controller is adapted for switching each of said hour display elements and said minute display elements at least between said exhibiting state and said non-exhibiting state of said hour display elements and said minute display elements, respectively;

wherein said controller is adapted for receiving time signals from the time mechanism and in response to the time signals said controller outputs display control signals to said hour display elements and said minute display elements whereby an hours group pattern and a minutes group pattern, respectively, of said one of said selectable display patterns are exhibited proximate to said display area; and

wherein each of said hours group pattern and said minutes group pattern is of discrete and discernable contrast relative

to said display area and is visually distinguishable from one another.

- 18. The device according to claim 17, wherein each of said hours group pattern and said minutes group pattern comprises a plurality of subgroup patterns wherein each of said subgroup patterns is able to be initiated by any display element within that subgroup pattern, wherein a chronological sequence of exhibition proximate to said display area among said subgroup patterns of said hours group pattern is able to be initiated by any display element within any one of said subgroup patterns of said hours group pattern, and wherein a chronological sequence of exhibition proximate to said display area among said subgroup patterns of said minutes group pattern is able to be initiated by any display element within any one of said subgroup patterns of said minutes group pattern.
- 19. The device according to claim 18, wherein each subgroup pattern of each of said hours group pattern and said minutes group pattern is exhibited by a group of display elements consisting of 2 display elements, 3 display elements, 4 display elements, 5 display elements and 6 display elements.

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20. The device according to claim 17, wherein said hours group pattern and said minutes group pattern combine to form a single display pattern.

21. The device according to claim 17, wherein each of said hours group pattern and said minutes group pattern is selected from a group of group patterns consisting of a first group pattern of dots, a second group pattern of dots, a first group pattern of lines, a second group pattern of lines, a first group pattern of shapes and a second group pattern of shapes.

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## 22. The device according to claim 17, wherein:

said hour display elements is selected from a group of hour display elements consisting of 12 primary hour display elements and 24 primary hour display elements wherein each primary hour display element is for indication of 1 elapsed hour; and

wherein said minute display elements is selected from a group of minute display elements consisting of 60 primary minute display elements wherein each primary minute display element is for indication of 1 elapsed minute, 12 primary minute display elements wherein each primary minute display element is for indication of 5 elapsed minutes, and 12 primary minute display elements and 4 secondary minute display elements wherein each primary minute display element is for indication of 5 elapsed minutes and each secondary minute display element is for indication of 1 elapsed minute of a 4-minute period between each 5-minute interval.

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